T06T20'80280660

FIG. 1A

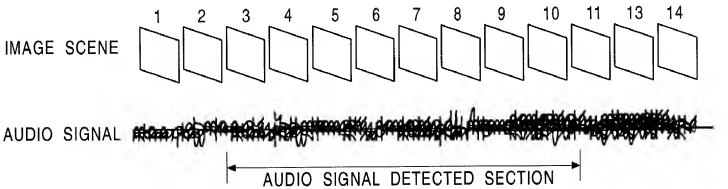
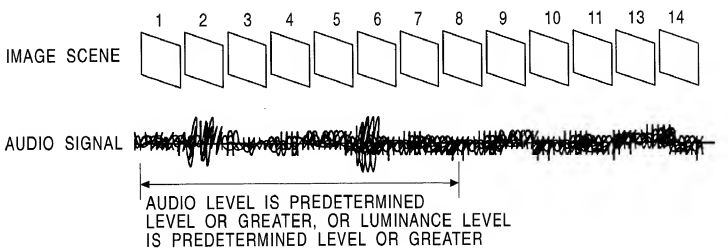


FIG. 1B



Solution

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FIG. 2A

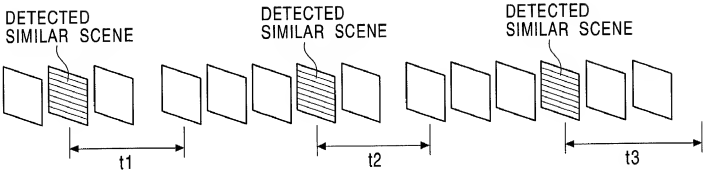

FIG. 2B

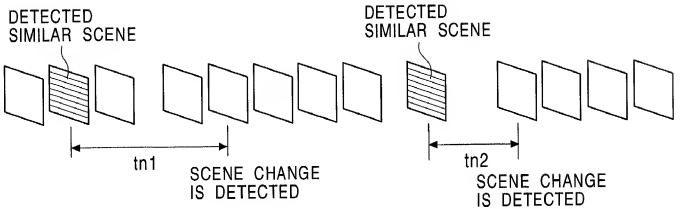

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FIG. 3

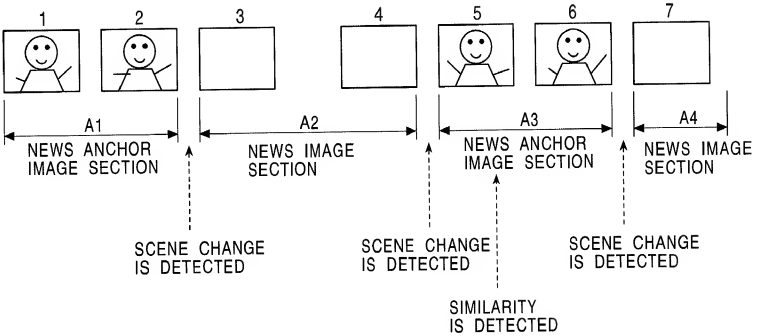

FIG. 4A

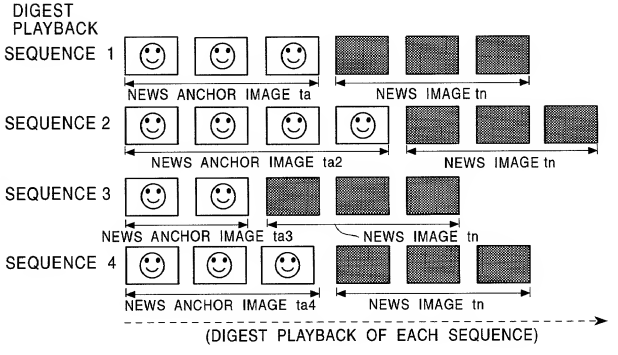

FIG. 4B

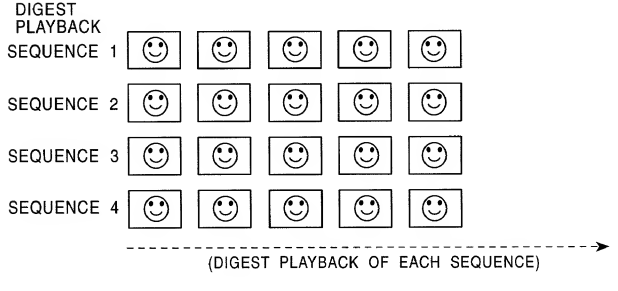

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FIG. 5

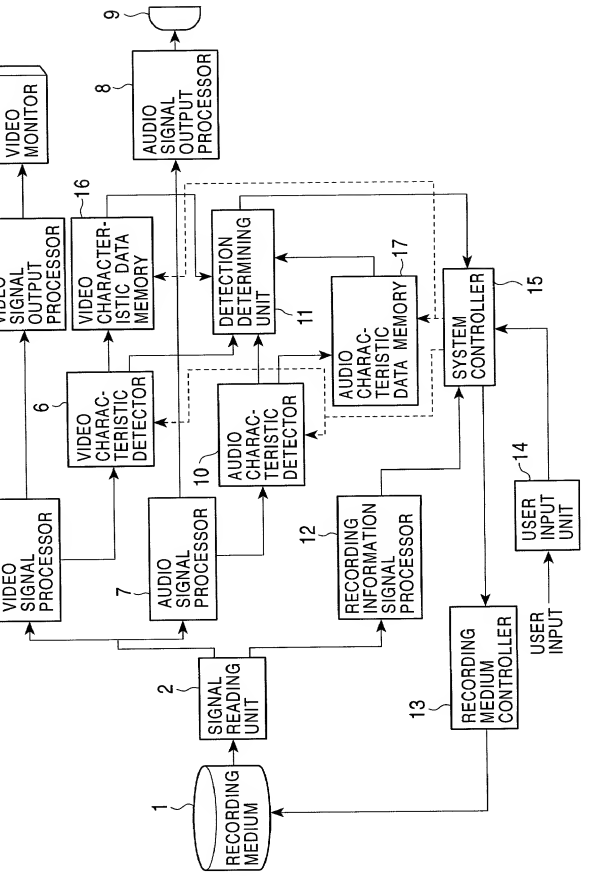

FIG. 6

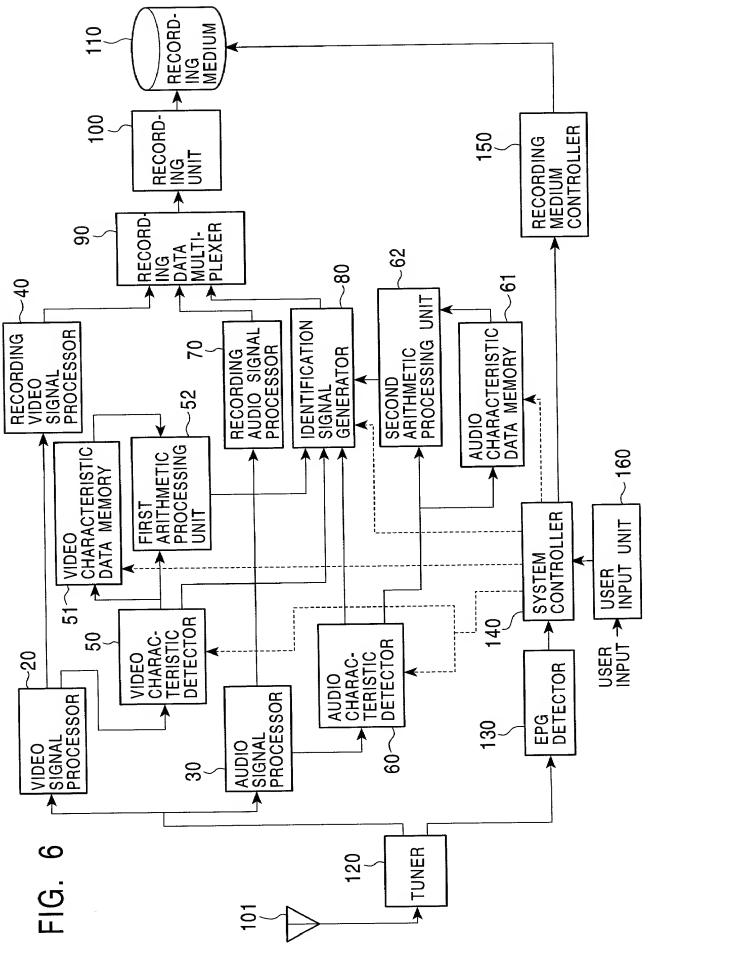
101
120
TUNER
30
AUDIO SIGNAL PROCESSOR
60
AUDIO CHARAC-TERISTIC DETECTOR
20
VIDEO SIGNAL PROCESSOR
50
VIDEO CHARAC-TERISTIC DETECTOR
51
VIDEO CHARACTERISTIC DATA MEMORY
52
FIRST ARITHMETIC PROCESSING UNIT
40
RECORDING VIDEO SIGNAL PROCESSOR
70
RECORDING AUDIO SIGNAL PROCESSOR
80
IDENTIFICATION SIGNAL GENERATOR
62
SECOND ARITHMETIC PROCESSING UNIT
61
AUDIO CHARACTERISTIC DATA MEMORY
90
RECORD-ING DATA MULTI-PLEXER
100
RECORD-ING UNIT
110
RECORD-ING MEDIUM
130
EPG DETECTOR
140
SYSTEM CONTROLLER
150
RECORDING MEDIUM CONTROLLER
160
USER INPUT UNIT
USER INPUT

FIG. 7

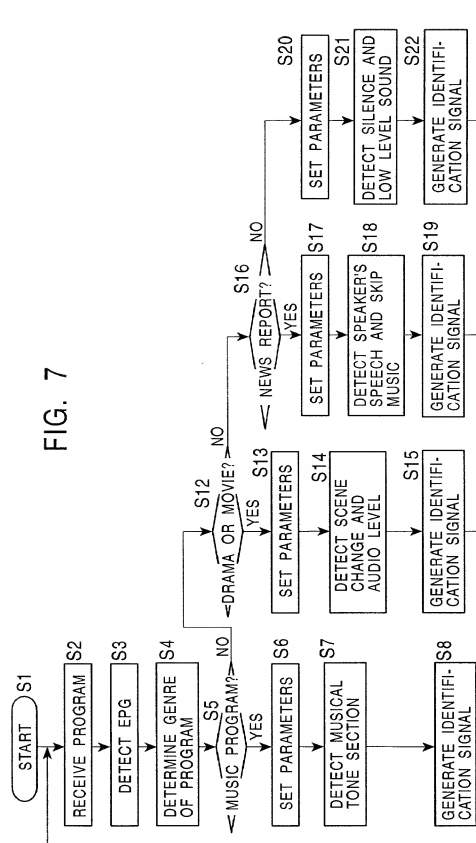
START
S1
RECEIVE PROGRAM
S2
DETECT EPG
S3
DETERMINE GENRE OF PROGRAM
S4
MUSIC PROGRAM?
S5
NO
YES
SET PARAMETERS
S6
DETECT MUSICAL TONE SECTION
S7
GENERATE IDENTIFICATION SIGNAL
S8
RECORD DATA
S9
STOP?
S10
NO
YES
END
S11
DRAMA OR MOVIE?
S12
NO
YES
SET PARAMETERS
S13
DETECT SCENE CHANGE AND AUDIO LEVEL
S14
GENERATE IDENTIFICATION SIGNAL
S15
NEWS REPORT?
S16
NO
YES
SET PARAMETERS
S17
DETECT SPEAKER'S SPEECH AND SKIP MUSIC
S18
GENERATE IDENTIFICATION SIGNAL
S19
SET PARAMETERS
S20
DETECT SILENCE AND LOW LEVEL SOUND
S21
GENERATE IDENTIFICATION SIGNAL
S22

FIG. 8

GENRE (FIELD)	PREFERRED DETECTION PARAMETER	PURPOSE		EXAMPLE OF DETECTION METHOD
		PLAY	PLAY AND SKIP	
MUSIC PROGRAM	MUSICAL TONE	○		FFT INTERMITTENCE ANALYSIS
	LOW AUDIO LEVEL SECTION		○	ANALYSIS OF AVERAGE AUDIO LEVEL IN PREDETERMINED SECTION
DRAMA AND MOVIE PROGRAM	SCENE CHANGE	○		IMAGE DIFFERENTIAL PROCESS
	PREDETERMINED HIGH AUDIO LEVEL SECTION	○		ANALYSIS OF AVERAGE AUDIO LEVEL IN PREDETERMINED SECTION
NEWS REPORT PROGRAM	SPEAKER AUDIO SECTION	○		FILTERING, FFT ANALYSIS
	MUSICAL TONE SECTION		○	FFT CONNECTIVITY ANALYSIS
	TELOP	○		IMAGE TELOP DETECTION
SPORTS PROGRAM	PREDETERMINED HIGH AUDIO LEVEL SECTION	○		ANALYSIS OF AVERAGE AUDIO LEVEL IN PREDETERMINED SECTION
	PREDETERMINED COLOR SECTION	○		COLOR SIGNAL ANALYSIS
COOKING AND INFORMATIVE PROGRAM	TELOP	○		IMAGE TELOP DETECTION

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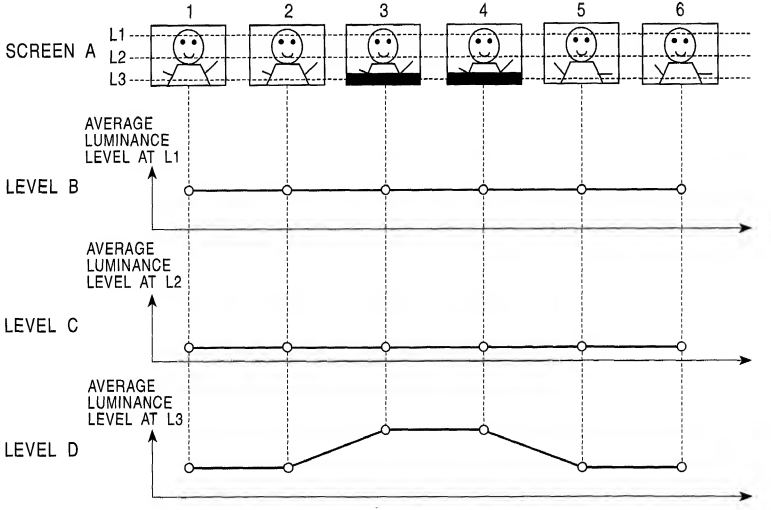
FIG. 9